

REPLACEMENT SHEET

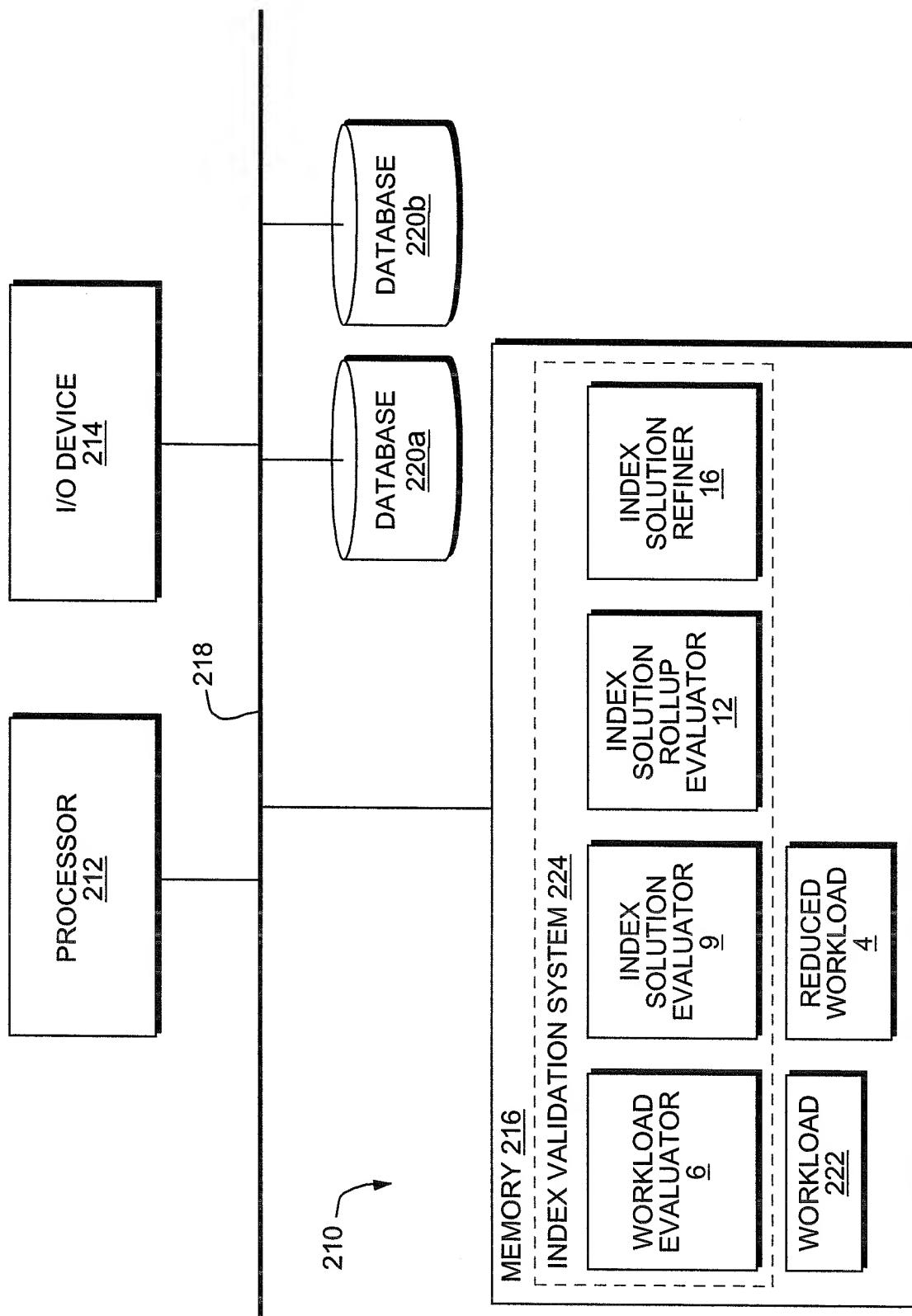


FIG. 1

REPLACEMENT SHEET

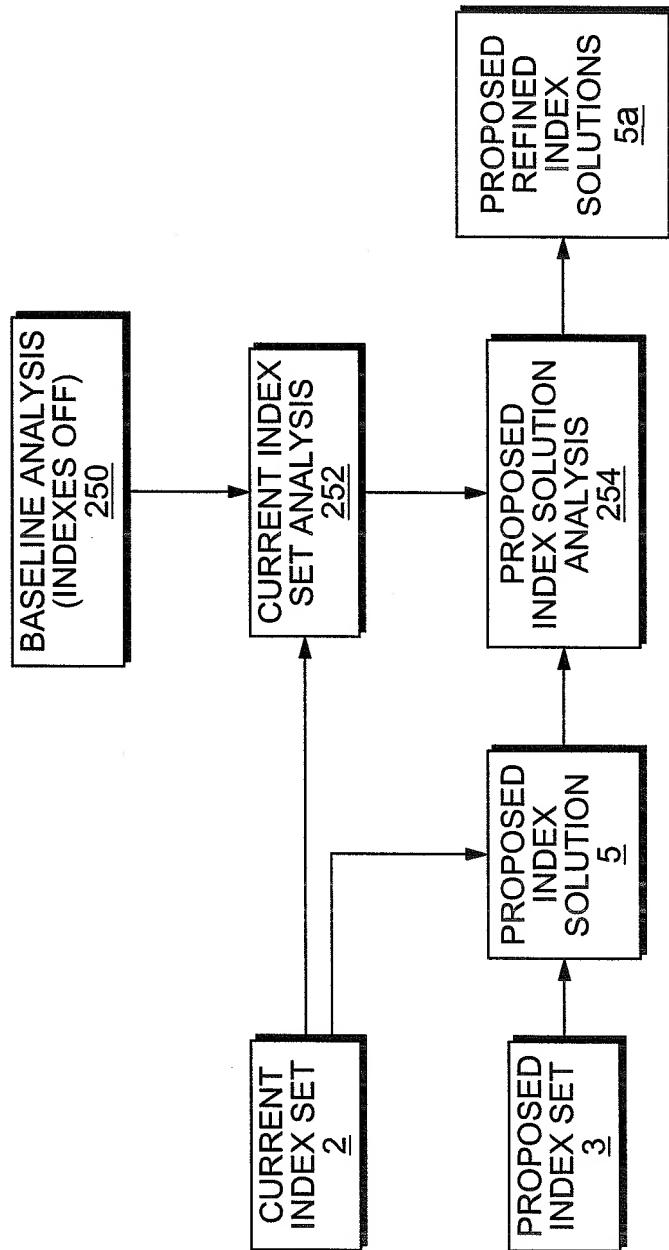


FIG. 2

REPLACEMENT SHEET

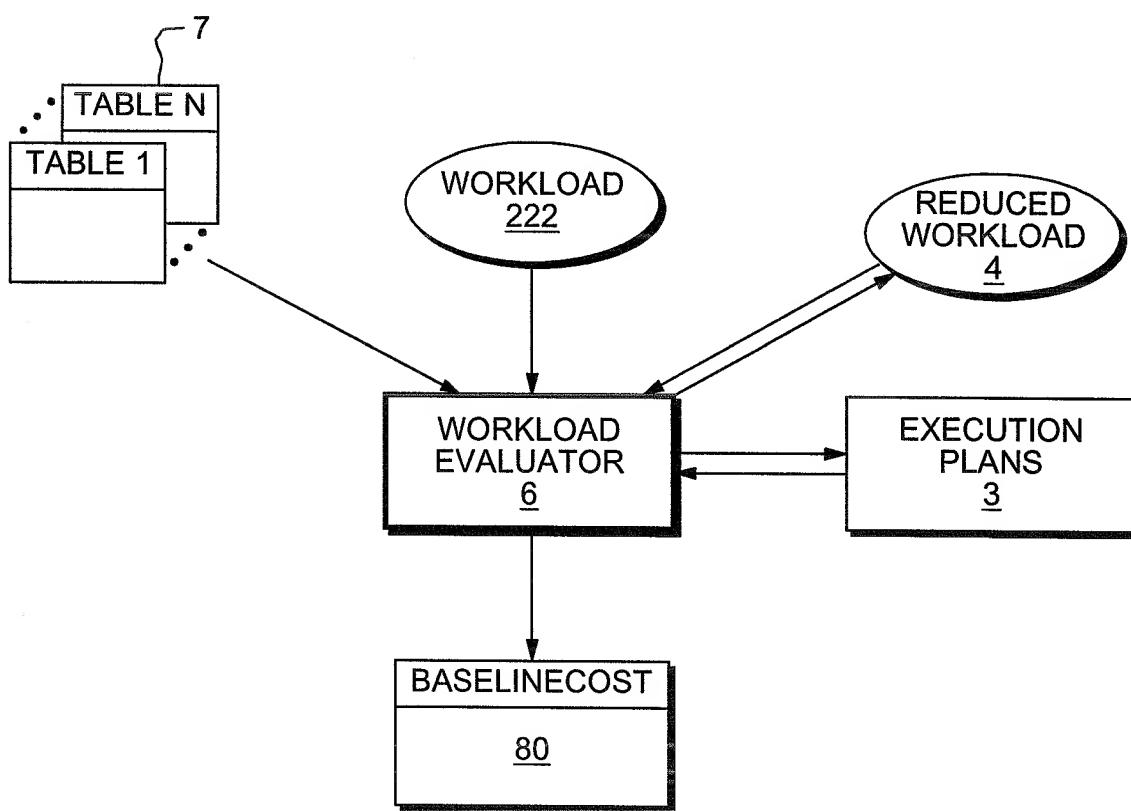


FIG. 3A

REPLACEMENT SHEET

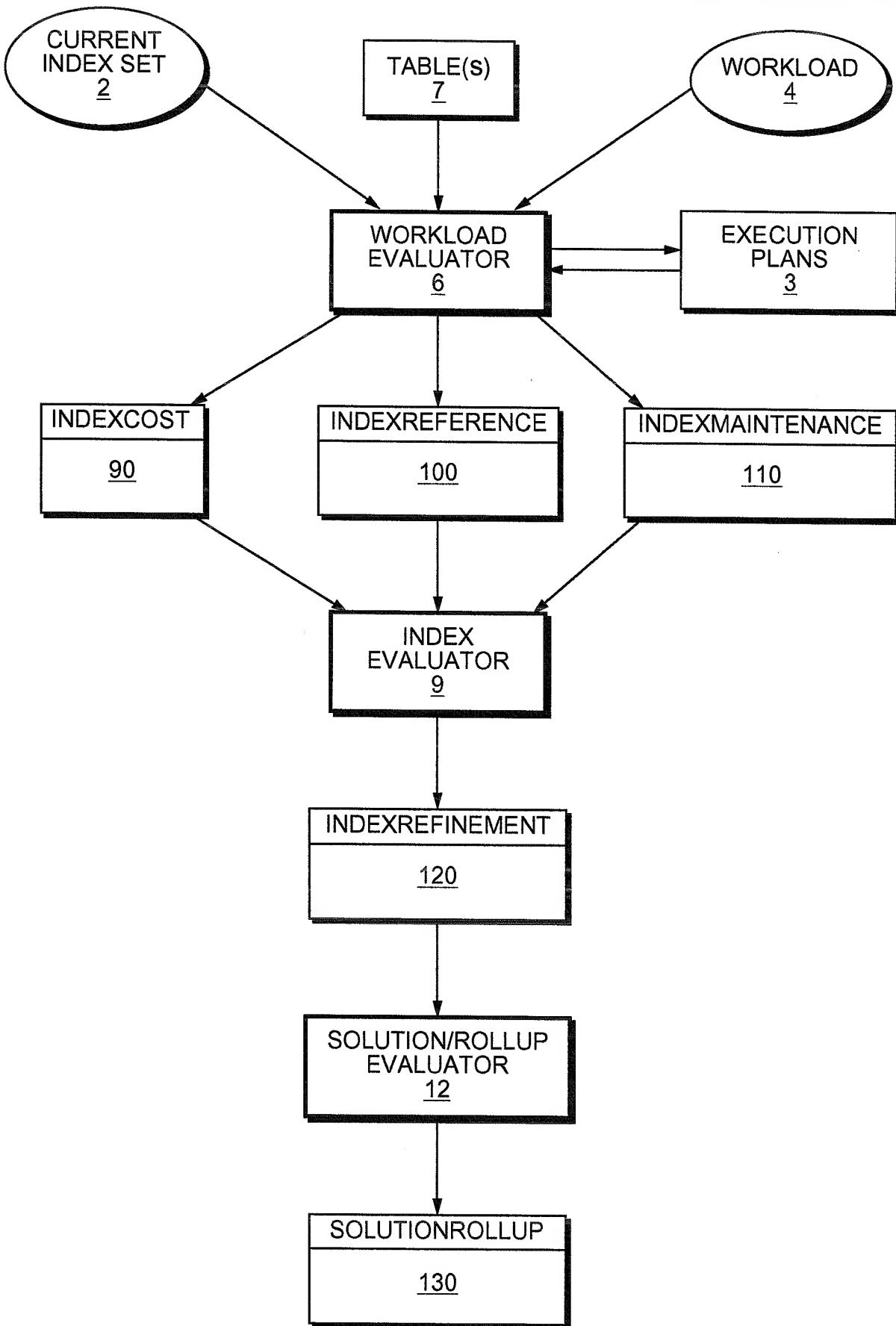
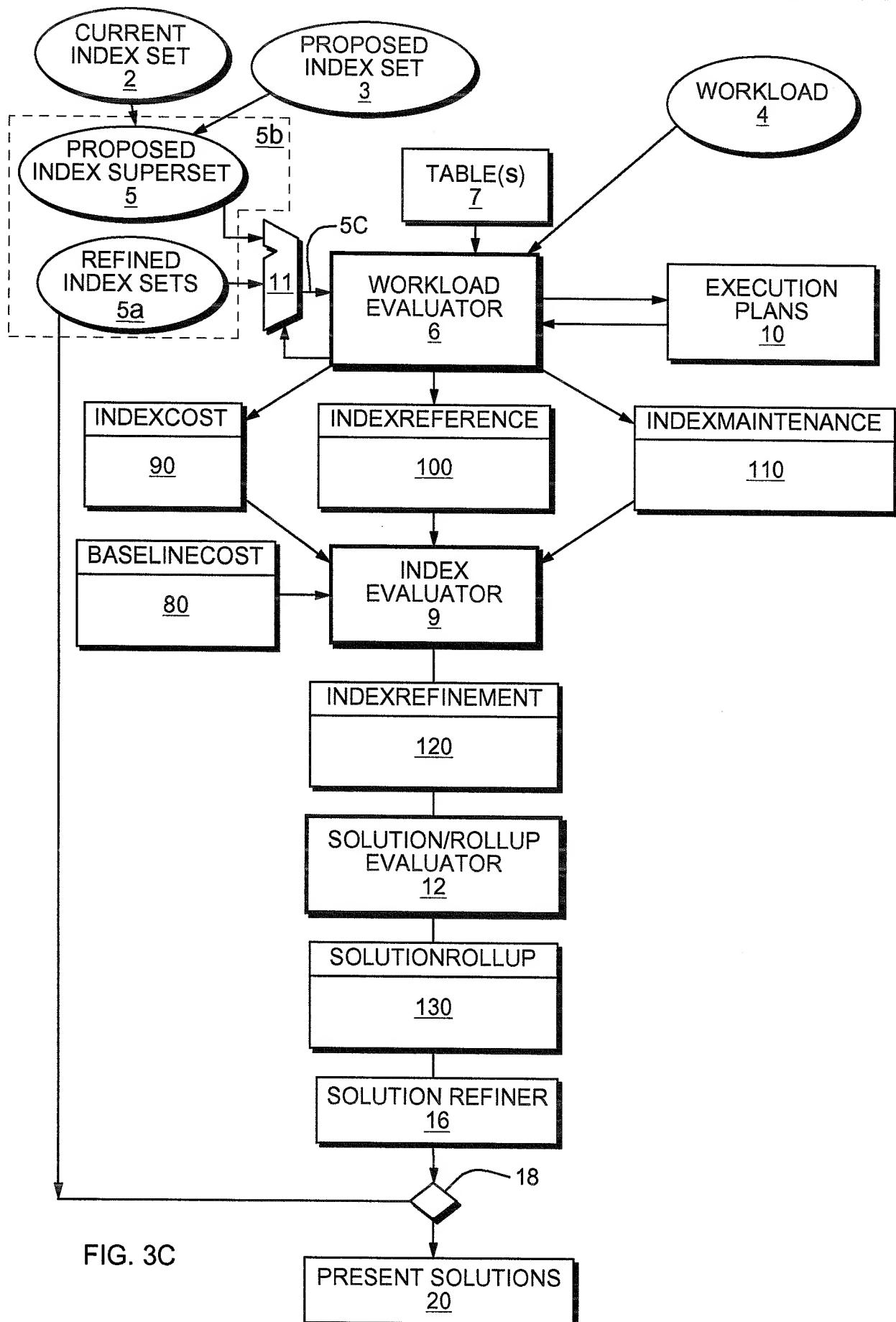


FIG. 3B

REPLACEMENT SHEET



REPLACEMENT SHEET

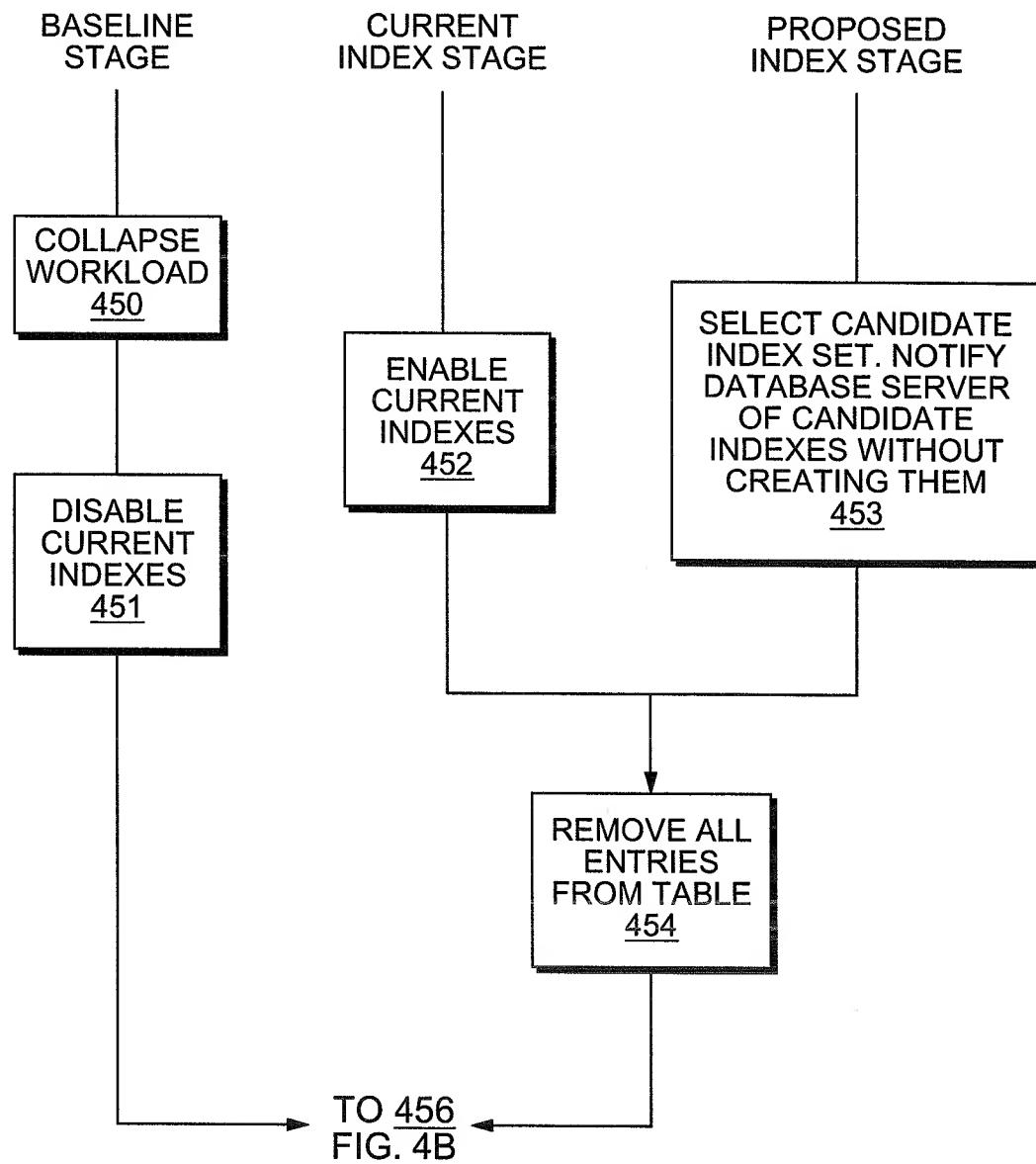


FIG. 4A

REPLACEMENT SHEET

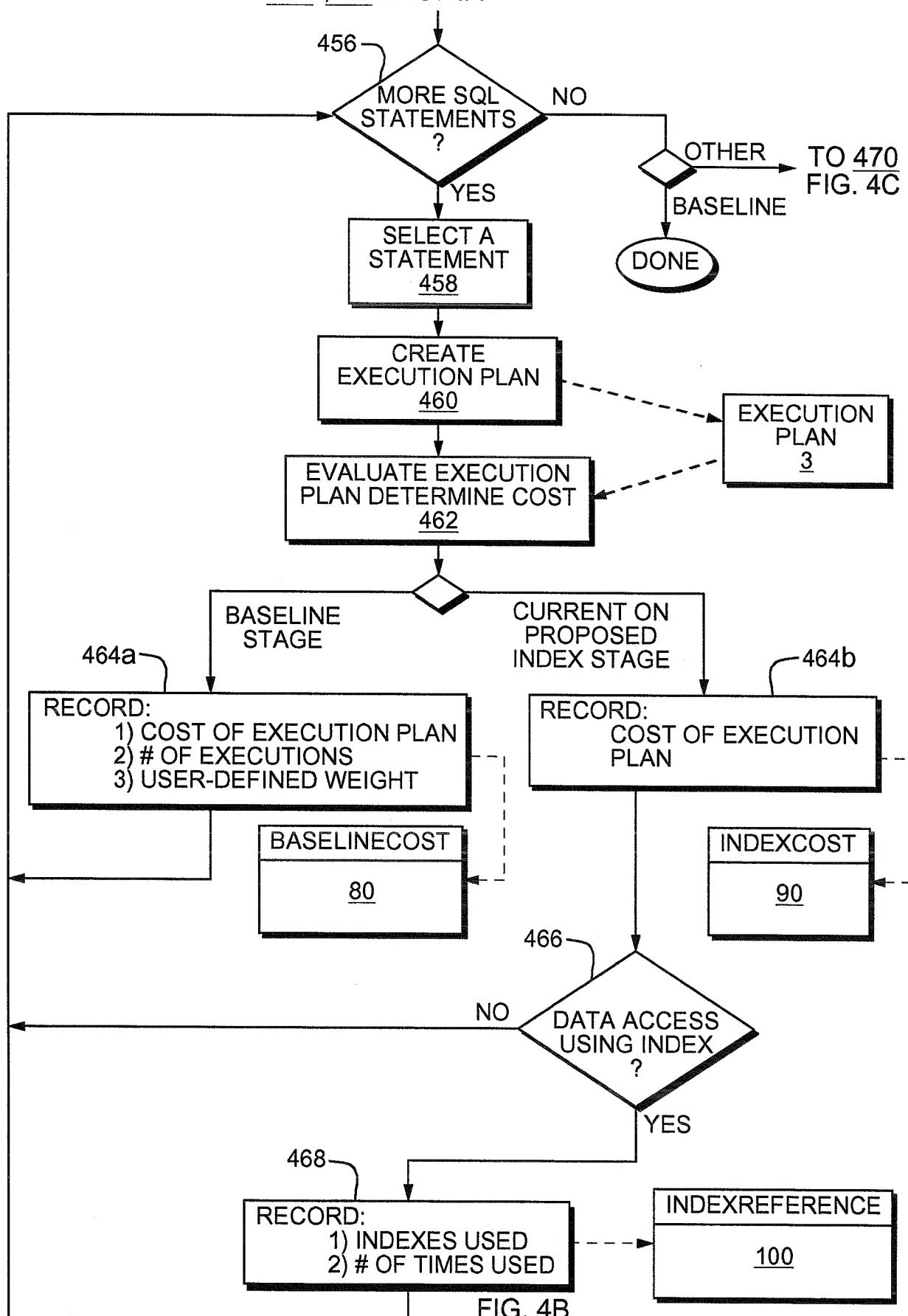
FROM 451, 454 FIG. 4A

FIG. 4B

REPLACEMENT SHEET

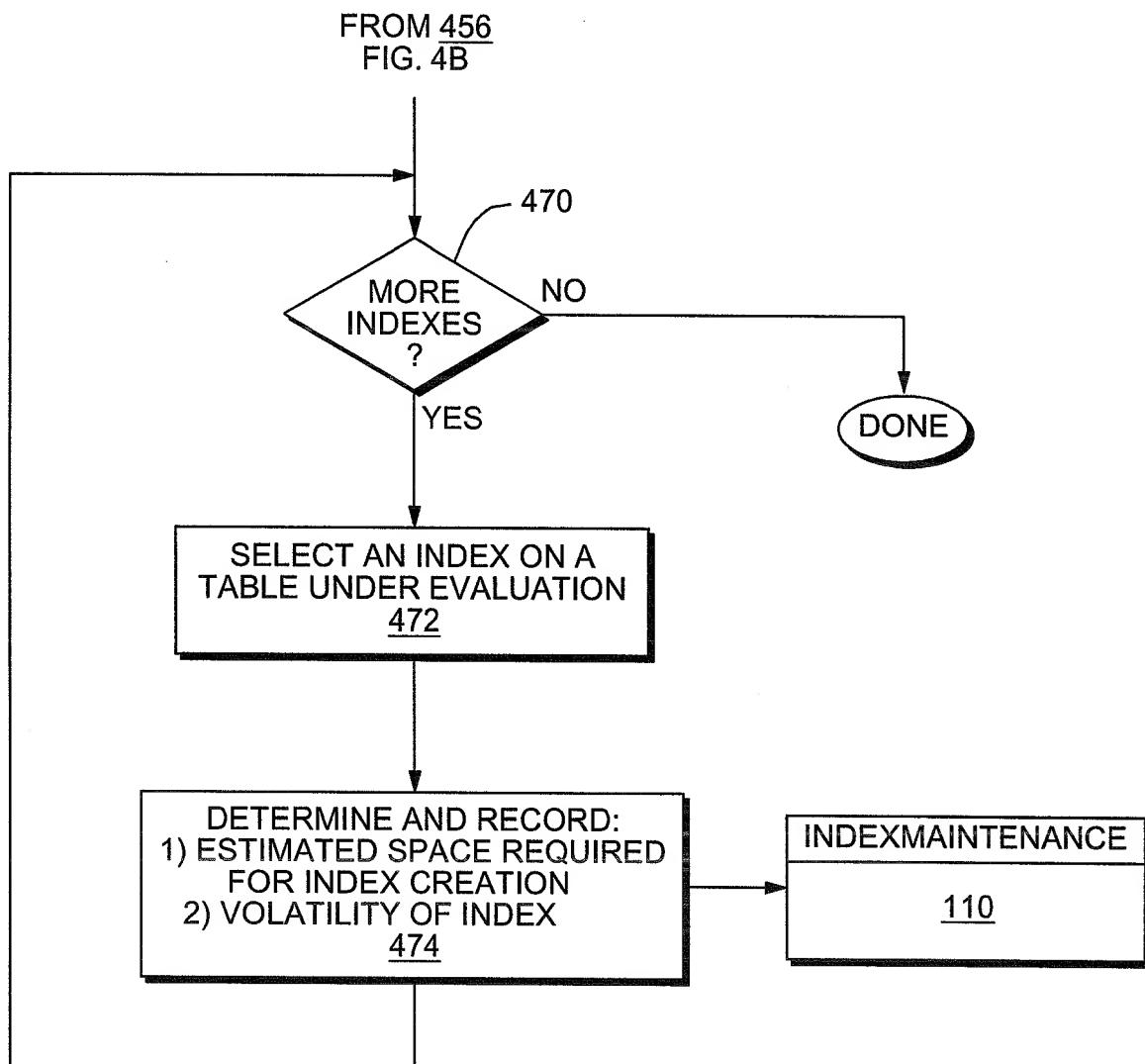


FIG. 4C

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BASELINECOST TABLE

STMTID	COST	EXECUTIONS	WEIGHT	USAGECOST
82	84		88	89

FIG. 5

INDECOST TABLE

STMTID	COST	USAGECOST
92	94	96

FIG. 6

INDEXREFERENCE TABLE

STMTID	INDEXNAME	INDEXREFCOUNT
102	104	106

FIG. 7

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INDEXCOST TABLE

<u>INDEXNAME</u> <u>112</u>	<u>REQUIREDSPACE</u> <u>114</u>	<u>VOLATILITY</u> <u>116</u>

110

FIG. 8

INDEXREFINEMENT TABLE

<u>INDEXNAME</u> <u>122</u>	<u>USAGEVALUE</u> <u>124</u>

120

FIG. 10

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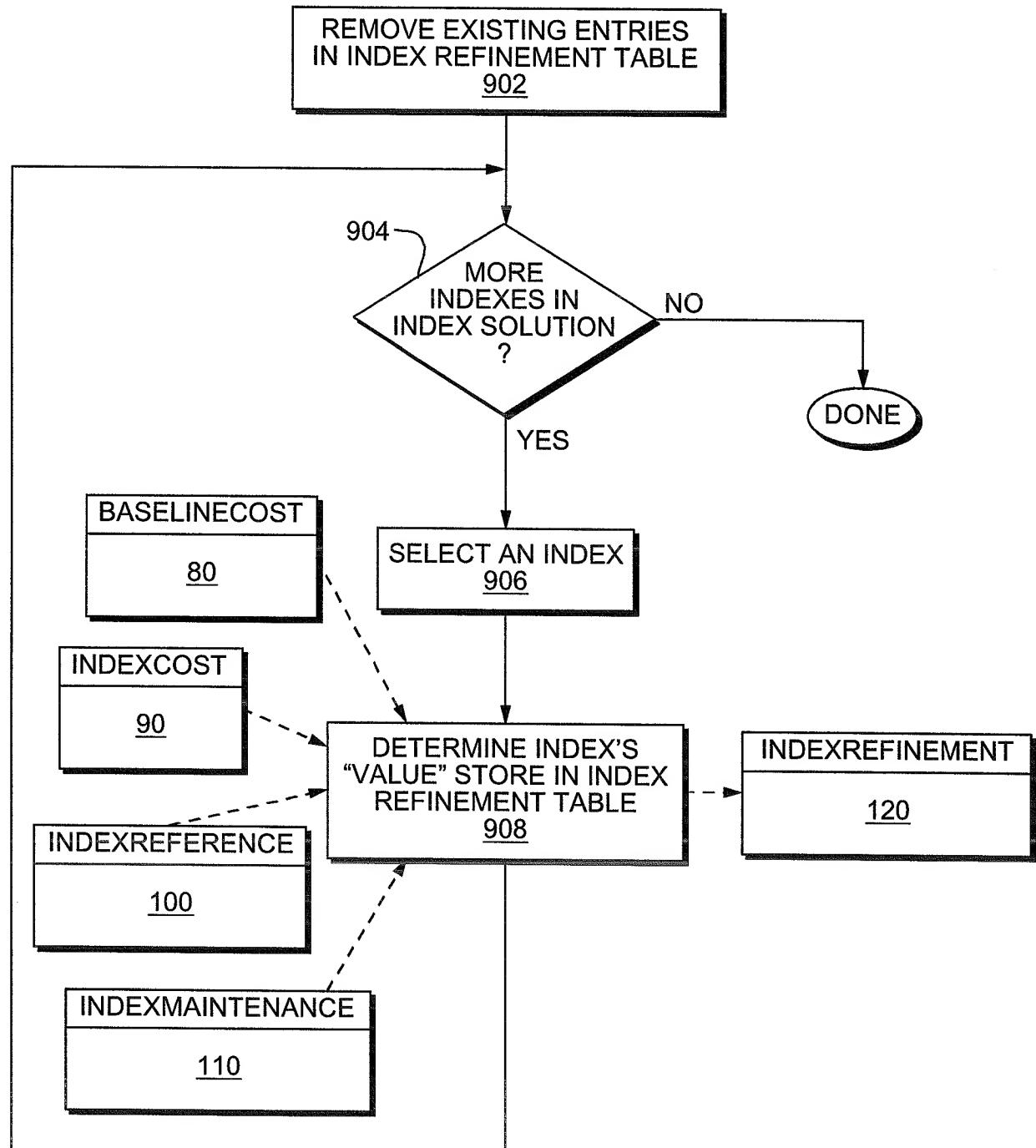


FIG. 9

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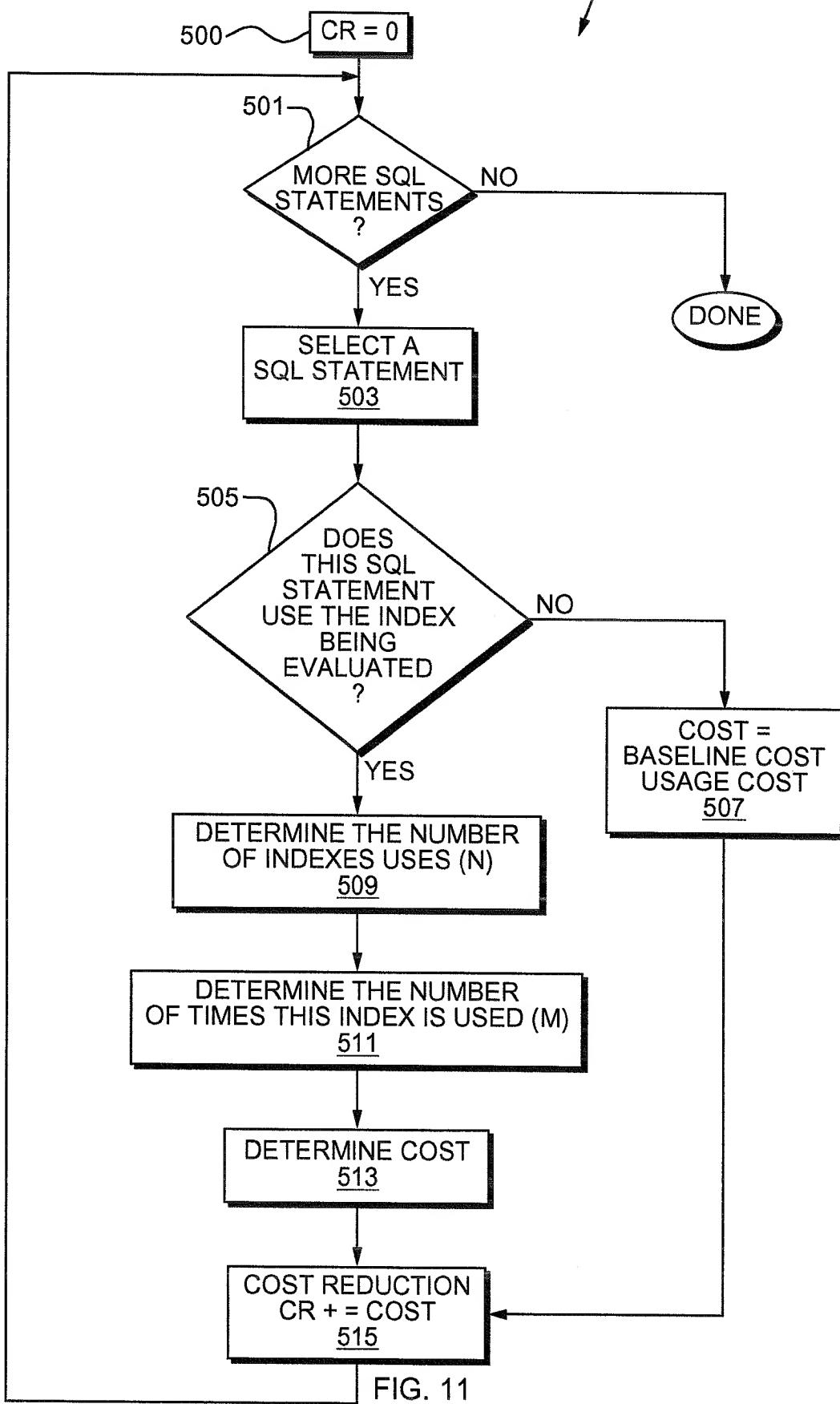


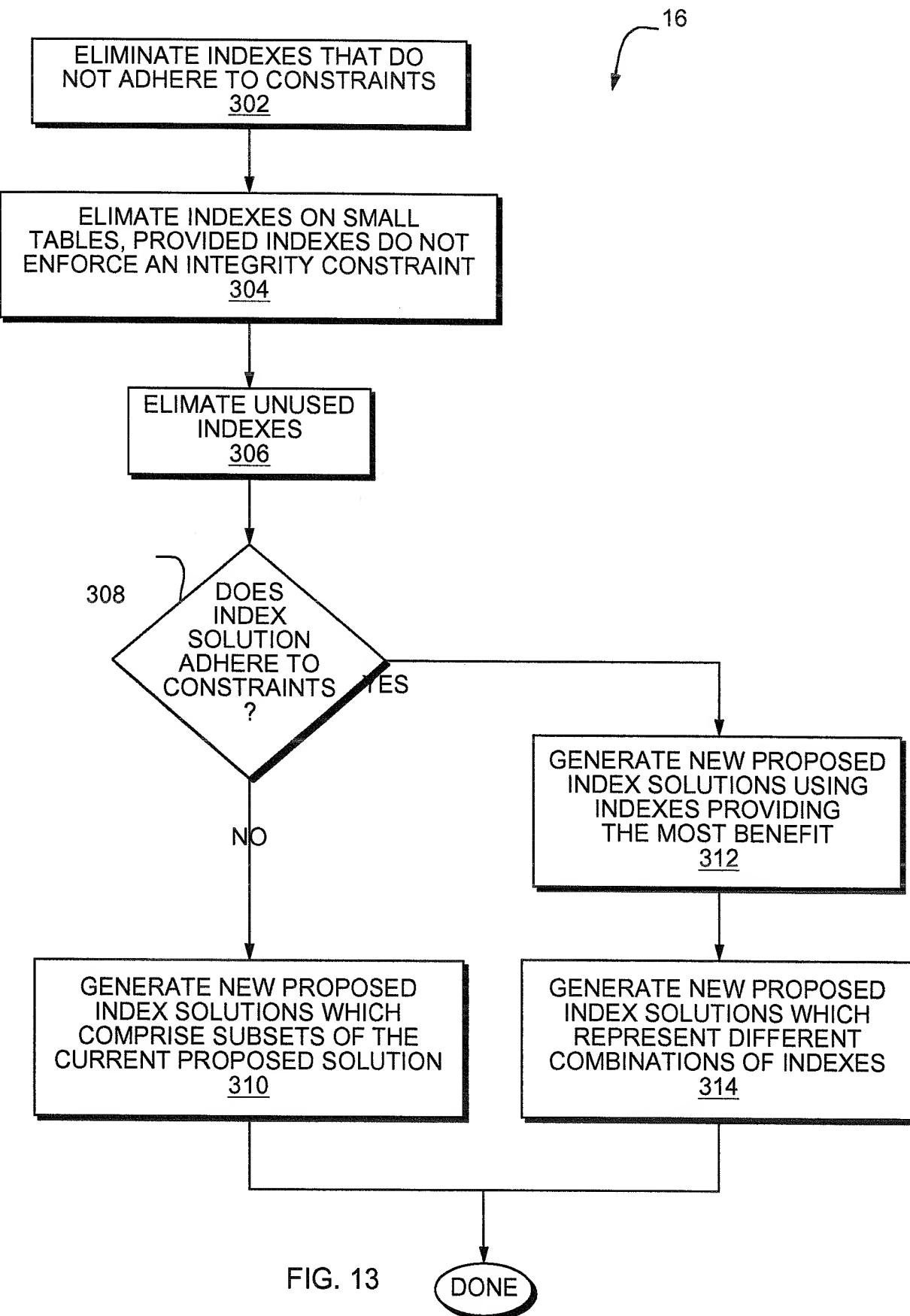
FIG. 11

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SOLUTIONID	COST	SPACE REQUIRED	VOLATILITY	EFFICIENCY
132	134	136	138	139

FIG. 12

REPLACEMENT SHEET



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WORKLOAD 650

```
651 /*S1*/ select COL_4 from TABLE1 where COL_2 = 1;
652 /*S2*/ select COL_2, COL_1 from TABLE1 where COL_2 in (1,5,10);
653 /*S3*/ select COL_1 from TABLE1 where COL_2 = 1 and COL_3 = 2
       union all
       select COL_1 from TABLE1 where COL_2 = 3 and COL_3 = 4
       union all
       select COL_1 from TABLE1 where COL_2 = 5;
654 /*S4*/ select COL_1 from TABLE1 where COL_2 = (select COL_2 from TABLE2
       where COL_1 = 10);
655 /*S5*/ insert into TABLE1 values (1, 2, 3, 4, 5);
656 /*S6*/ update TABLE2 set COL_1 = 10 where COL_1 = 20;
657 /*S7*/ select COL_3 from TABLE3 where COL_1 = 1;
658 /*S8*/ update TABLE3 set COL_3 = "Oracle Corp" where COL_1<30;
```

FIG. 15

REPLACEMENT SHEET

WORKLOAD EVALUATION 660

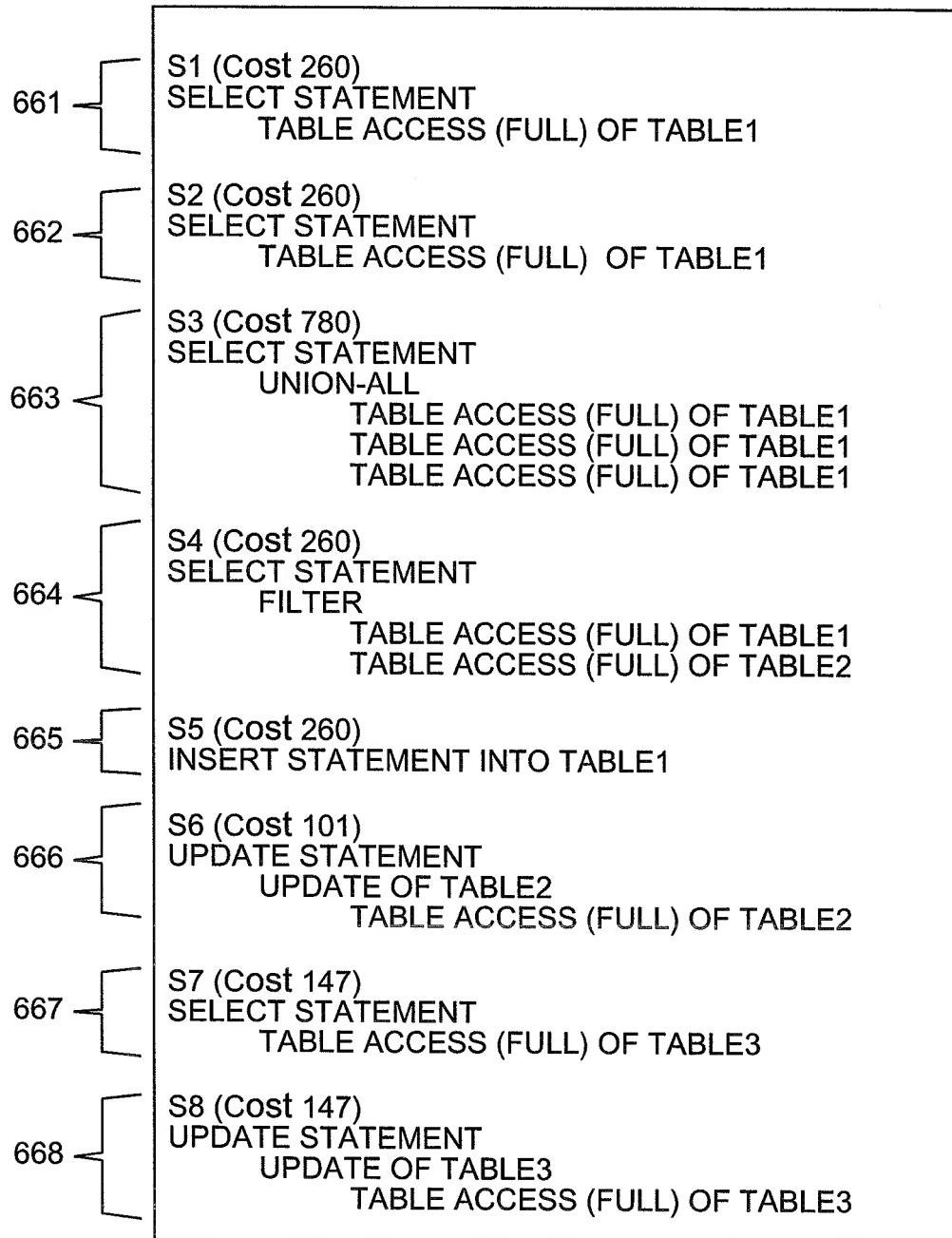


FIG. 16

REPLACEMENT SHEET

BASELINECOST TABLE 80

STMTID 82	COST 84	EXECUTIONS 86	WEIGHT 88	USAGECOST 89
S1	260	50	1.0	13000
S2	260	10	0.5	1300
S3	780	500	0.5	195000
S4	260	100	0.5	13000
S5	260	10	0.25	650
S6	101	40	0.25	1010
S7	147	500	1.0	73500
S8	147	50	1.0	7350

FIG. 17

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WORKLOAD EVALUATION 660a

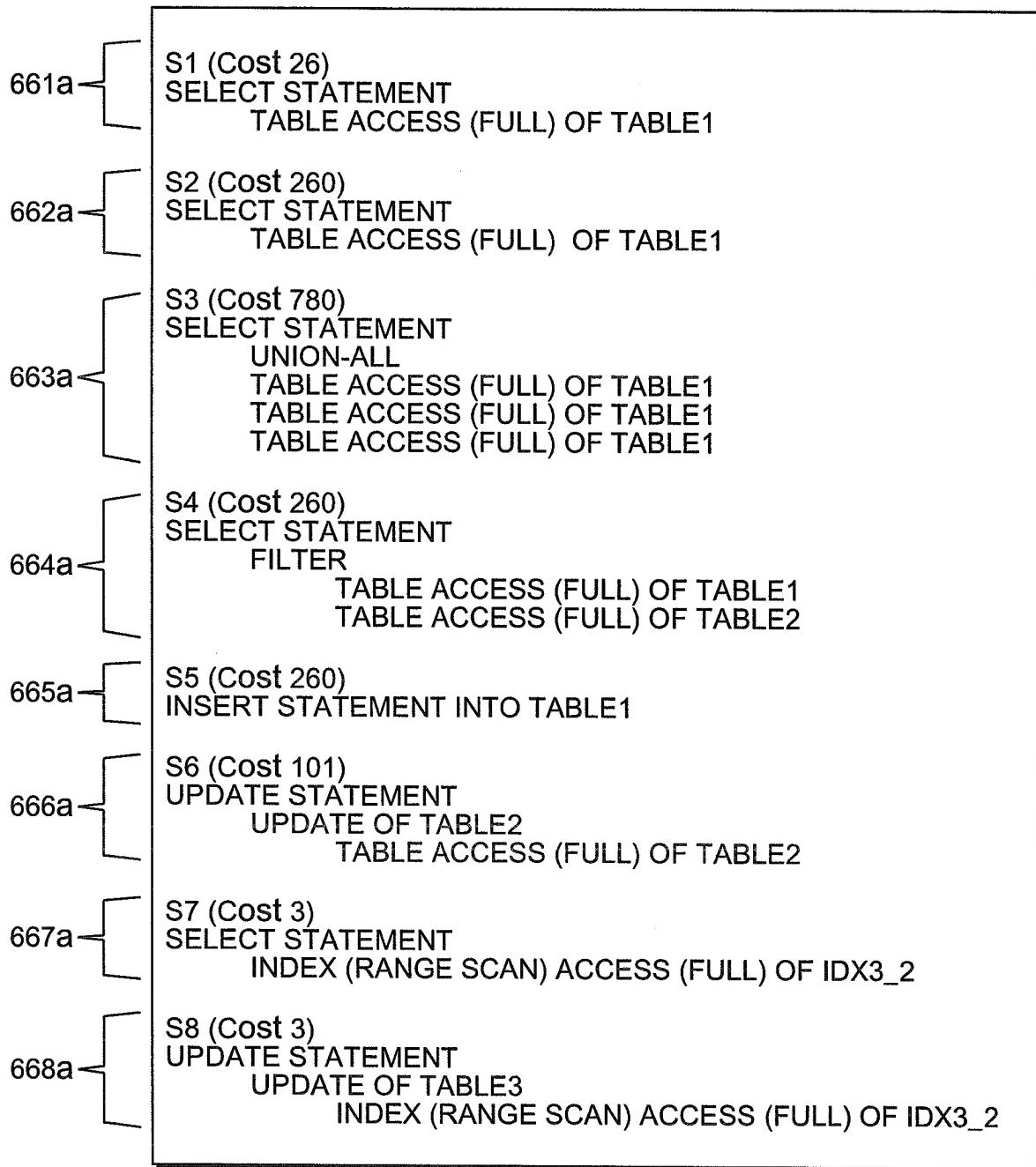


FIG. 18

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WORKLOAD EVALUATION 660b

661b	S1 (Cost 4) SELECT STATEMENT TABLE ACCESS (BY INDEX ROWID) OF TABLE1 INDEX (RANGE SCAN) OF IDX1_1 (NON-UNIQUE)
662b	S2 (Cost 3) SELECT STATEMENT INLIST ITERATOR INDEX (RANGE SCAN) OF IDX1_2 (NON-UNIQUE)
663b	S3 (Cost 9) SELECT STATEMENT UNION-ALL INDEX (RANGE SCAN) OF IDX1_2 (NON-UNIQUE) INDEX (RANGE SCAN) OF IDX1_2 (NON-UNIQUE) INDEX (RANGE SCAN) OF IDX1_2 (NON-UNIQUE)
664b	S4 (Cost 3) SELECT STATEMENT INDEX (RANGE SCAN) OF IDX1_2 (NON-UNIQUE) TABLE ACCESS (BY INDEX ROWID) OF TABLE2 INDEX (RANGE SCAN) OF IDX2_1 (NON-UNIQUE)
665b	S5 (Cost 260) INSERT STATEMENT INTO TABLE1
666b	S6 (Cost 3) UPDATE STATEMENT UPDATE OF TABLE2 INDEX (RANGE SCAN) OF IDX2_1 (NON-UNIQUE)
667b	S7 (Cost 3) SELECT STATEMENT INDEX (RANGE SCAN) ACCESS (FULL) OF IDX3_2
668b	S8 (Cost 3) UPDATE STATEMENT UPDATE OF TABLE3 INDEX (RANGE SCAN) ACCESS (FULL) OF IDX3_2

FIG. 24